

TEST REPORT

Report No. CISRR25041513206

Project No. CISR250415132

FCC ID 2BFQI-V30

Applicant Jiangxi Jichi Technology Co., Ltd.

Address PlantNo.3,BlockB13-1-2,B14-1,JinggangshanEconomicandDevelopment

Zone, Ji'an City, Jiangxi Province, China

Manufacturer Jiangxi Jichi Technology Co., Ltd.

Address PlantNo.3,BlockB13-1-2,B14-1,JinggangshanEconomicandDevelopment

Zone, Ji'an City, Jiangxi Province, China

Product Name KEYBOARD

Trade Mark N/A

Model/Type reference V30

Listed Model(s) N/A

Standard 47 CFR Part 15.247

Test date April 16, 2025 to April 21, 2025

Issue date April 23, 2025

Test result Complied

Kory Awang

Prepared by: Rory Huang

GenryLong

Approved by: Genry Long

The test results relate only to the tested samples.

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1. REPORT VERSION

Version No.	Issue date	Description
00	April 23, 2025	Original



2. TEST DESCRIPTION

No.	Test Item	Standard Requirement	Result
1	Antenna Requirement	47 CFR 15.203	Pass
2	Conducted Emission at AC power line	47 CFR 15.207(a)	Pass
3	6dB Bandwidth	47 CFR 15.247(a)(2)	Pass
4	Maximum Conducted Output Power	47 CFR 15.247(b)(3)	Pass
5	Power Spectral Density	47 CFR 15.247(e)	Pass
6	Conducted band edge and spurious emission	47 CFR 15.247(d), 15.209, 15.205	Pass
7	Radiated band edge emission	47 CFR 15.247(d), 15.209, 15.205	Pass
8	Radiated Spurious Emission (below 1GHz)	47 CFR 15.247(d), 15.209, 15.205	Pass
9	Radiated Spurious Emission (Above 1GHz)	47 CFR 15.247(d), 15.209, 15.205	Pass

Note:

The measurement uncertainty is not included in the test result.



3. **SUMMARY**

3.1. Product Description *

Main unit information:			
Product Name:	KEYBOARD		
Trade Mark:	N/A		
Model No.:	V30		
Listed Model(s):	N/A		
Model difference:	N/A		
Power supply:	N/A		
Hardware version:	N/A		
Software version:	N/A		
Accessory unit (AU) information:			
Battery:	DC 3.7V		

3.2. Radio Specification Description *

Modulation type:	GFSK
Operation frequency:	2402MHz to 2480MHz
Channel number:	40
Channel separation:	2MHz
Antenna type:	PCB
Antenna gain:	2.94dBi

Note:

2) Operation frequency list as follow:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474

^{1) *:} Since the above information is provided by the applicant relevant results or conclusions of this report are only made for these information, Bangce is not responsible for the authenticity, integrity and results of the information and/or the validity of the conclusion.



7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

3.3. Modification of EUT

No modifications are made to the EUT during all test items.

3.4. Deviation from standards

None

3.5. Testing Site

Laboratory Name	Shenzhen Bangce Testing Technology Co., Ltd.
Laboratory Location	101, building 10, Yunli Intelligent Park, Shutianpu community, Matian Street, Guangming District, Shenzhen, Guangdong, China
Contact information	Tel: 86-755-2319 6848, email: service@cis-cn.net Website: http://www.cis-cn.net/
FCC registration number	736346
FCC designation number	CN1372



4. TEST CONFIGURATION

4.1. Test frequency list

Lowest Channel (LCH)	Middle Channel (MCH)	Highest Channel (HCH)
(MHz)	(MHz)	(MHz)
2402	2440	2480

4.2. Descriptions of test mode

No	Test mode	Description
TM1	TX mode	Keep the EUT in continuously transmitting mode with GFSK modulation at lowest, middle and highest channel.
TM2	Link mode	Keep the EUT in Bluetooth linking mode with AE.
TM3	Charging mode	Keep the EUT in charging status

4.3. Support unit used in test configuration

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Item	Equipment name	Trade Name	Model No.
1	PC	Lenovo	ThinkPad
2	Adapter	Guangdong Sangu Technology Co. ltd	SG-0501000AU

4.4. Test sample information

Туре	Sample No.
Engineer sample	CISR250415132-S01
Normal sample	CISR250415132-S02

4.5. Environmental conditions

Туре	Requirement
Temperature:	15~35°C
Relative Humidity:	25~75%
Air Pressure:	860~1060mbar



4.6. Equipment Used during the Test

Conducted Emission at AC power line

	<u> </u>					
Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI7	100853	2025-01-08	2026-01-07
2	Artificial power network	Schwarzbeck	NSLK812 7	8127-01096	2025-01-08	2026-01-07
3	8-wire Impedance Stabilization Network	Schwarzbeck	NTFM 8158	8158-00337	2025-01-08	2026-01-07
4	Artificial power network	Schwarzbeck	ENV216	/	2025-01-08	2026-01-07

Maximum Conducted Output Power Power Spectral Density Emissions in non-restricted frequency bands 6dB Bandwidth

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	MXG RF Signal Generator	Agilent	N5181A	MY50145362	2025-01-08	2026-01-07
2	Spectrum analyzer	R&S	FSV-40N	102130	2025-01-08	2026-01-07
3	Vector Signal Generator	Agilent	N5182A	MY50142364	2025-01-08	2026-01-07

Band edge emissions (Radiated) Emissions in frequency bands (below 1GHz) Emissions in frequency bands (above 1GHz)

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI7	100853	2025-01-08	2026-01-07
2	Amplifier	Tonscend	TAP9K3G 40	AP23A806027 0	2025-01-08	2026-01-07
3	Prime amplifier	Tonscend	TAP0101 8050	AP23A806028 0	2025-01-08	2026-01-07
4	9*6*6 anechoic chamber	SKET	9.3*6.3*6	N/A	2024-09-02	2027-09-01
5	Spectrum analyzer	Agilent	N9020A	MY50530263	2025-01-08	2026-01-07
6	Spectrum analyzer	R&S	FSV-40N	102130	2025-01-08	2026-01-07
7	Bilog Antenna	Schwarzbeck	VULB 9163	1463	2023-01-09	2026-01-08
8	Horn Antenna	SCHWARZBECK	BBHA 9120 D	2487	2023-01-09	2026-01-08
9	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	1	2023-01-09	2026-01-08
10	RF Cable	Tonscend	Cable 1	1	2025-01-08	2026-01-07



11	RF Cable	Tonscend	Cable 2	1	2025-01-08	2026-01-07
12	RF Cable	SKET	Cable 3	1	2025-01-08	2026-01-07
13	L.I.S.N.#1	Schwarzbeck	NSLK812 7	/	2025-01-08	2026-01-07
14	L.I.S.N.#2	ROHDE&SCHWA RZ	ENV216	1	2025-01-08	2026-01-07
15	Horn Antenna	SCHWARZBECK	BBHA917 0	1130	2023-01-09	2026-01-08
16	Preamplifier	Tonscend	TAP1804 0048	AP21C806126	2025-01-08	2026-01-07
17	Variable-frequency power source	Pinhong	PH1110	1	2025-01-08	2026-01-07
18	6dB Attenuator	SKET	DC-6G	1	2025-01-08	2026-01-07
19	Antenna tower	SKT	Bk-4AT- BS	AT202104010 1-V1	2025-01-08	2026-01-07



5. TEST RESULTS

5.1. Evaluation Results (Evaluation)

5.1.1. Antenna Requirement

Test Requirement:

Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

5.1.1.1. Test Result

Pass

5.1.1.2. Conclusion:

The EUT antenna is PCB(2.94dBi), the directional gain of the antenna less than 6dBi. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used. Antenna structure please refer to the EUT internal photographs antenna photo.



5.2. Radio Spectrum Matter Test Results (RF)

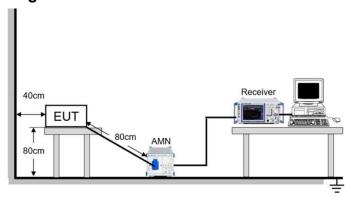
5.2.1. Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN).				
	Frequency of emission (MHz)	Conducted limit (dBµV)			
		Quasi-peak	Average		
Test Limit:	0.15-0.5	66 to 56*	56 to 46*		
rest Limit.	0.5-5	56	46		
	5-30	60	50		
	*Decreases with the logarithm of the frequency.				
Test Method:	ANSI C63.10-2020 section 6.2				
Procedure:	1. The EUT was setup according to 2. The EUT was placed on a platformabove the conducting ground planed on the rear of the EUT. All other so other grounded conducting surface. 3. The EUT and simulators are consimpedances stabilization network (Loupling impedance for the measured. The peripheral devices are also of (Refer to the block diagram of the test. Each current-carrying conductor (safety) conductor, was individually source. 6. The excess length of the power of were folded back and forth at the cest. The excess length of the power of the conducted emissions were invested 30MHz using a receiver bandwides. During the above scans, the emissions.	m of nominal size, 1 m by 1. The vertical conducting placeurfaces of EUT were at least nected to the main power the ISN). The LISN provides a ng equipment. onnected to the main powerst setup and photographs) of the EUT power cord, except connected through a LISN ord between the EUT and the enter of the lead to form a buttigated over the frequency the first setup.	1.5 m, raised 80 cm ane was located 40 ast 80 cm from any arough a line 50 ohm /50uH ar through a LISN. The the ground to the input power the LISN receptacle undle not exceeding arange from 0.15MHz		

5.2.1.1. E.U.T. Operation

Operating Environment:						
Temperature:	: 22.2 °C		Humidity:	56.9 %	Atmospheric Pressure:	103 kPa
Pre test mode:		TM′	1, TM2, TM3			
Final test mode:		TM′	1, TM2, TM3			

5.2.1.2. Test Setup Diagram



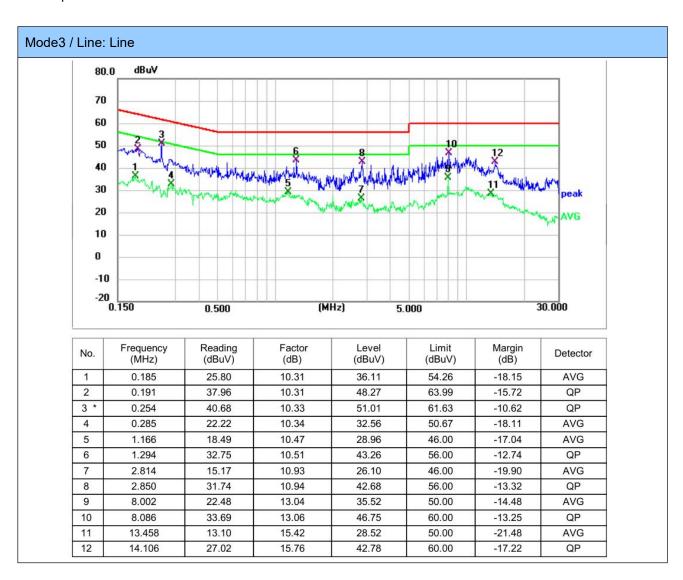
5.2.1.3. Test Result

Pass

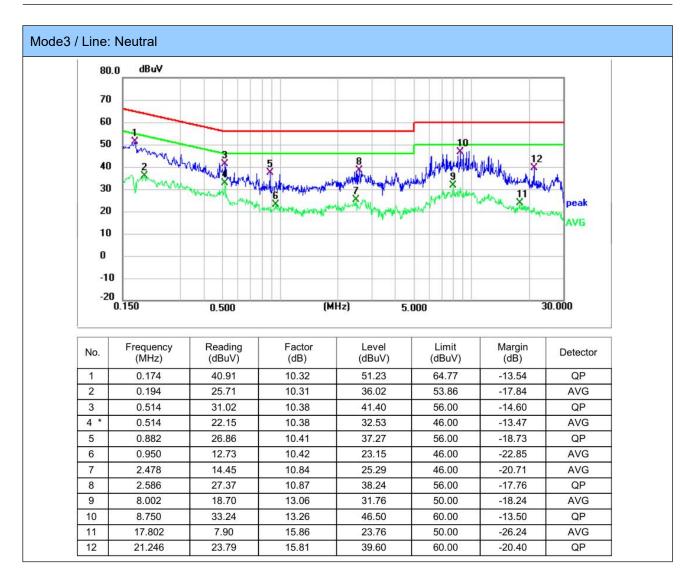
5.2.1.4. Test Data

Note:

Have pre-scan all test mode, found TM3 mode which it was worst case, so only show the worst case's data on this report.







Note:

- 1). Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)
- 2). Margin = Result Limit



5.2.2. 6dB Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2020, section 11.8
Procedure:	11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be as close as possible to this value. 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW ≥ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement
	is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

5.2.2.1. E.U.T. Operation

Operating Environment:						
Temperature:	23.3 °C		Humidity:	55.7 %	Atmospheric Pressure:	103 kPa
Pre test mode:		TM ²	1			
Final test mode	ə:	TM ²	1			

5.2.2.2. Test Setup Diagram



5.2.2.3. Test Result

Pass

5.2.2.4. Test Data

5.2.3. Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2020 section 11.9.1
Procedure:	ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power

5.2.3.1. E.U.T. Operation

Operating Env	Operating Environment:					
Temperature:	Temperature: 23.3 °C		Humidity:	55.7 %	Atmospheric Pressure:	103 kPa
Pre test mode:		TM ²	1			
Final test mode:		TM ²	1			

5.2.3.2. Test Setup Diagram



5.2.3.3. Test Result

Pass

5.2.3.4. Test Data

5.2.4. Power Spectral Density

Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2020, section 11.10
Procedure: ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission	

5.2.4.1. E.U.T. Operation

Operating Environment:							
Temperature:	Temperature: 23.3 °C		Humidity:	55.7 %	Atmospheric Pressure:	103 kPa	
Pre test mode:	TM	1					
Final test mode:		TM ²	1				

5.2.4.2. Test Setup Diagram



5.2.4.3. Test Result

Pass

5.2.4.4. Test Data

5.2.5. Conducted band edge and spurious emission

Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020 section 11.11
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

5.2.5.1. E.U.T. Operation

Operating Environment:							
Temperature: 23.3 °C			Humidity:	55.7 %	Atmospheric Pressure:	103 kPa	
Pre test mode:	TM	1					
Final test mode:		TM	1				

5.2.5.2. Test Setup Diagram



5.2.5.3. Test Result

Pass

5.2.5.4. Test Data

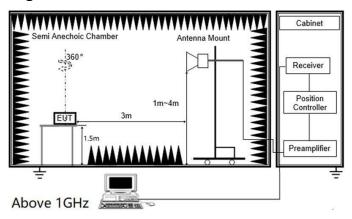
5.2.6. Radiated band edge emission

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).						
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)				
	0.009-0.490	2400/F(kHz)	300				
	0.490-1.705	24000/F(kHz)	30				
	1.705-30.0	30	30				
	30-88	100 **	3				
	88-216	150 **	3				
Took I insite	216-960	200 **	3				
Test Limit:	Above 960	500	3				
	15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.						
Test Method:	ANSI C63.10-2020 section 6.10						
Procedure:	1. EUT was setup and tested according to ANSI C63.10 . 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters. 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. Thisis repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement. 5. Use the following spectrum analyzer settings: a) Span shall wide enough to fully capture the emission being measured b) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement For average measurement: use duty cycle correction factor method (DCCF), Averager level = Peak level + DCCF						

5.2.6.1. E.U.T. Operation

Operating Environment:								
Temperature: 23.2 °C		, ,	Humidity:	55 %	Atmospheric Pressure:	102 kPa		
Pre test mode:		TM	1, TM2, TM3					
Final test mode:		TM	1, TM2, TM3					

5.2.6.2. Test Setup Diagram



5.2.6.3. Test Result

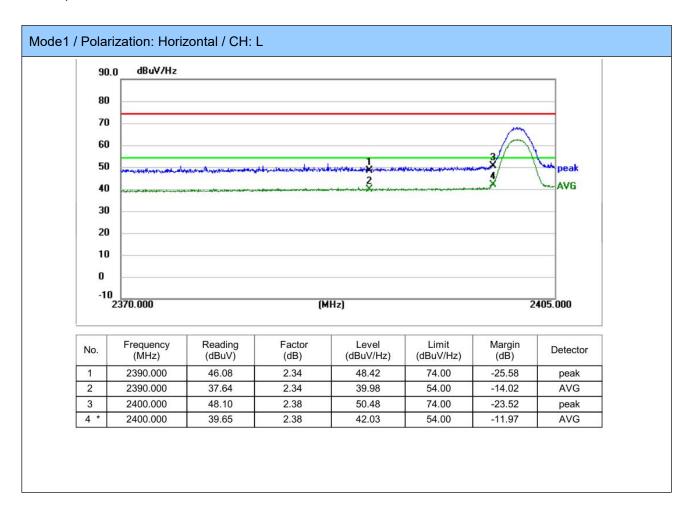
Pass

5.2.6.4. Test Data

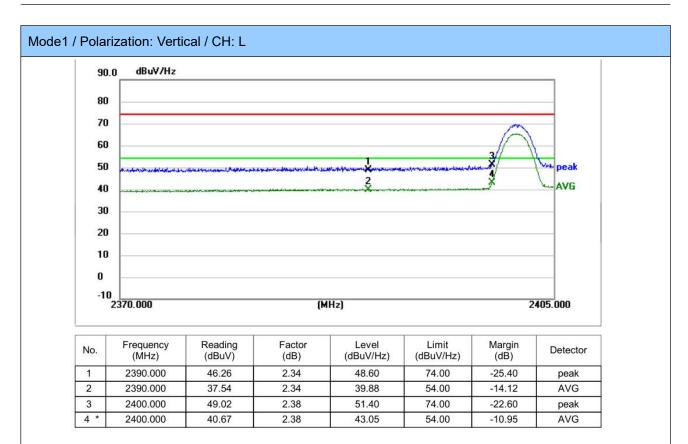
Note:

- 1) Level= Reading + Factor; Factor = Antenna Factor+ Cable Loss- Preamp Factor
- 2) Margin = Limit Level
- 3) Average measurement was not performed if peak level is lower than average limit
- 4) Have pre-scan all test mode, found TM1 mode which it was worst case, so only show the worst case's data on this report.
- 5) The other emission levels were very low against the limit.

Have pre-scan all test mode, found TM1 mode which it was worst case, so only show the worst case's data on this report.

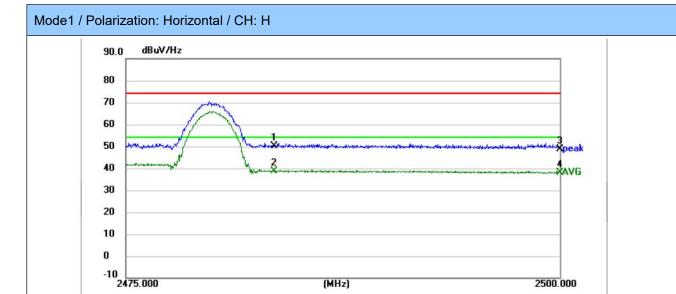






2500.000

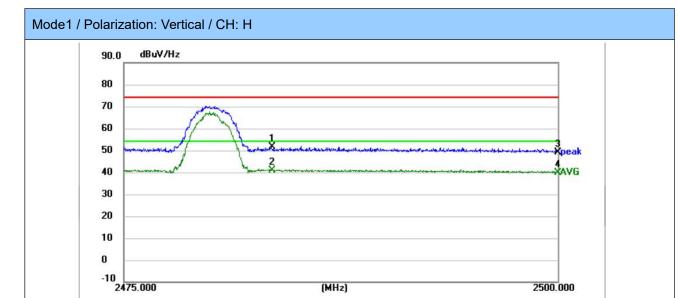




No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2483.500	47.37	2.66	50.03	74.00	-23.97	peak
2 *	2483.500	36.04	2.66	38.70	54.00	-15.30	AVG
3	2500.000	46.10	2.80	48.90	74.00	-25.10	peak
4	2500.000	35.09	2.80	37.89	54.00	-16.11	AVG

(MHz)





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2483.500	48.87	2.66	51.53	74.00	-22.47	peak
2 *	2483.500	38.21	2.66	40.87	54.00	-13.13	AVG
3	2500.000	46.34	2.80	49.14	74.00	-24.86	peak
4	2500.000	36.95	2.80	39.75	54.00	-14.25	AVG

5.2.7. Radiated Spurious Emission (below 1GHz)

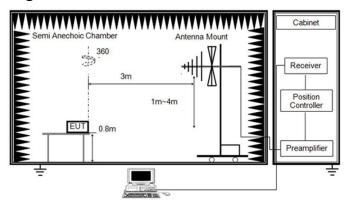
Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).					
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)			
	0.009-0.490	2400/F(kHz)	300			
	0.490-1.705	24000/F(kHz)	30			
	1.705-30.0	30	30			
	30-88	100 **	3			
	88-216	150 **	3			
T. (412)-9	216-960	200 **	3			
Test Limit:	Above 960	500	3			
	54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.					
Test Method:	ANSI C63.10-2020 section	6.6.4				
Procedure:	1. The EUT was setup and tested according to ANSI C63.10. 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level. 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower. 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines. 5. Set to the maximum power setting and enable the EUT transmit continuously. 6. Use the following spectrum analyzer settings a) Span shall wide enough to fully capture the emission being measured; b) RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.					

5.2.7.1. E.U.T. Operation

Operating Environment:							
Temperature: 23.2 °C			Humidity:	55 %	Atmospheric Pressure:	102 kPa	
Pre test mode:			1, TM2, TM3				
Final test mode:		TM ²	1, TM2, TM3				



5.2.7.2. Test Setup Diagram



Below 1 GHz and above 30 MHz

5.2.7.3. Test Result

Pass

5.2.7.4. Test Data

Note:

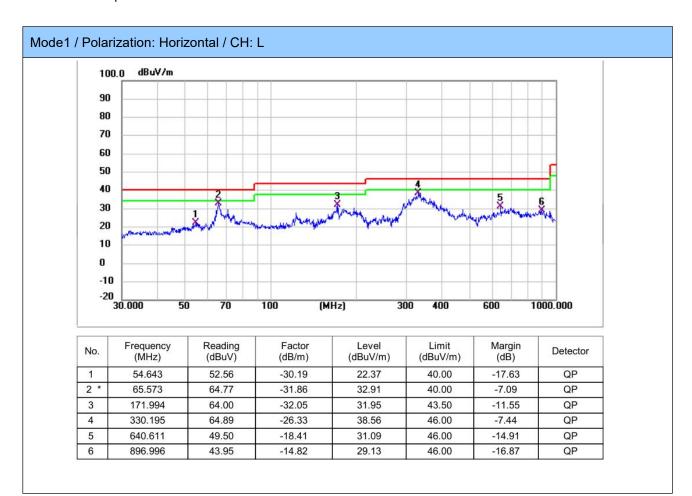
- 1) Level= Reading + Factor/Transd; Factor/Transd = Antenna Factor+ Cable Loss- Preamp Factor
- 2) Margin = Limit Level
- Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.
- 4) The other emission levels were very low against the limit.
- 5) This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.

For 9 kHz ~ 30 MHz

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

For 30 MHz ~ 1000 MHz

Have pre-scan all test mode, found TM1 mode CH00 which it was worst case, so only show the worst case's data on this report.



Mode1 / Polarization: Vertical / CH: L 100.0 dBuV/m 90 80 70 60 50 40 30 20 10 0 -10 -20 30.000 (MHz) 1000.000 50 70 100 300 400 600 Factor Limit Frequency Reading Level Margin Detector No. (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) 40.00 -6.77 QP 47.658 62.44 -29.21 33.23 40.00 2 66.266 63.88 -32.05 31.83 -8.17 QP 3 119.018 59.00 -31.98 27.02 43.50 -16.48 QP 4 * 199.986 67.03 -29.86 37.17 43.50 -6.33 QP 5 352.943 48.94 -25.78 23.16 46.00 -22.84 QP 955.438 42.70 -13.92 28.78 46.00 -17.22 QP 6

Note:

1) For 9 kHz ~ 30 MHz Measurement

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

- 2) Level= Reading + Factor; Factor = Antenna Factor + Cable Loss- Preamp Factor
- 3) Margin = Limit Level

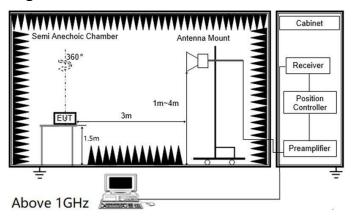
5.2.8. Radiated Spurious Emission (Above 1GHz)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`					
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)			
	0.009-0.490	2400/F(kHz)	300			
	0.490-1.705	24000/F(kHz)	30			
	1.705-30.0	30	30			
	30-88	100 **	3			
	88-216	150 **	3			
Took I insite	216-960	200 **	3			
Test Limit:	Above 960	500	3			
	these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.					
Test Method:	ANSI C63.10-2020 section	า 6.6.4				
Procedure:	1. The EUT was setup and tested according to ANSI C63.10. 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level. 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower. 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines. 5. Set to the maximum power setting and enable the EUT transmit continuously. 6. Use the following spectrum analyzer settings a) Span shall wide enough to fully capture the emission being measured; b) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement For average measurement: use duty cycle correction factor method (DCCF)Averager level = Peak level + DCCF					

5.2.8.1. E.U.T. Operation

Operating Environment:								
Temperature: 23.2 °C			Humidity:	55 %	Atmospheric Pressure:	102 kPa		
Pre test mode:			1, TM2, TM3					
Final test mode:		TM	1, TM2, TM3					

5.2.8.2. Test Setup Diagram



5.2.8.3. Test Result

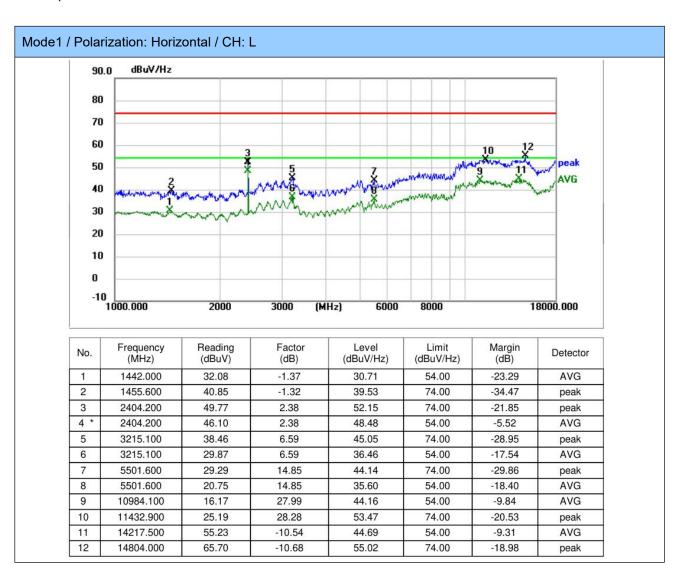
Pass



5.2.8.4. Test Data

For 1 GHz ~ 18 GHz

Have pre-scan all test mode, found TM1 mode which it was worst case, so only show the worst case's data on this report.





8

9

10

11

12

5552.600

6934.700

6961.900

11133.700

11152.400

30.99

20.79

28.74

24.76

15.63

14.86

20.86

21.03

28.09

28.12

Mode1 / Polarization: Vertical / CH: L dBuV/Hz 90.0 80 70 60 50 40 30 20 10 0 -10 1000.000 2000 3000 (MHz) 6000 8000 18000.000 Reading Frequency Factor Level Limit Margin No. Detector (MHz) (dBuV/Hz) (dBuV/Hz) (dBuV) (dB) (dB) AVG 1 1299.200 36.00 -1.61 34.39 54.00 -19.61 2 1316.200 44.85 -1.62 43.23 74.00 -30.77 peak 3 1785.400 52.39 -0.27 52.12 74.00 -21.88 peak 4 * 1785.400 47.05 -0.27 46.78 54.00 -7.22 AVG 5 3045.100 39.60 6.12 45.72 74.00 -28.28 peak 3169.200 31.26 6.45 37.71 54.00 -16.29 AVG 6 7 5516.900 22.88 14.86 37.74 54.00 -16.26 AVG

45.85

41.65

49.77

52.85

43.75

74.00

54.00

74.00

74.00

54.00

-28.15

-12.35

-24.23

-21.15

-10.25

peak

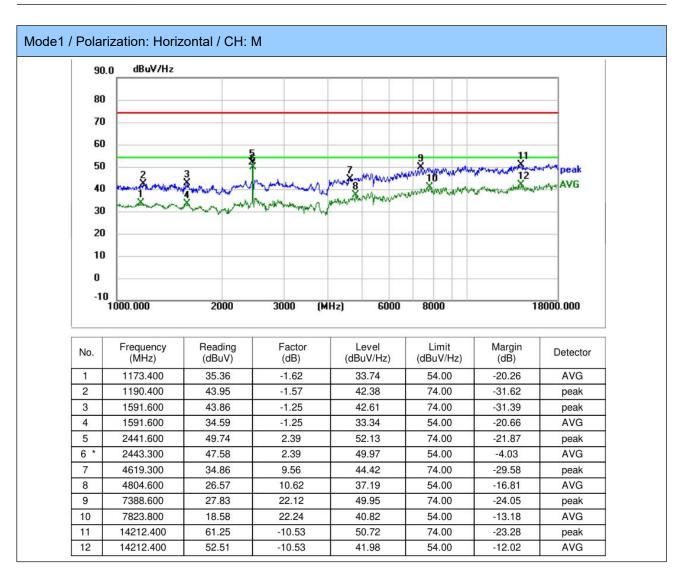
AVG

peak

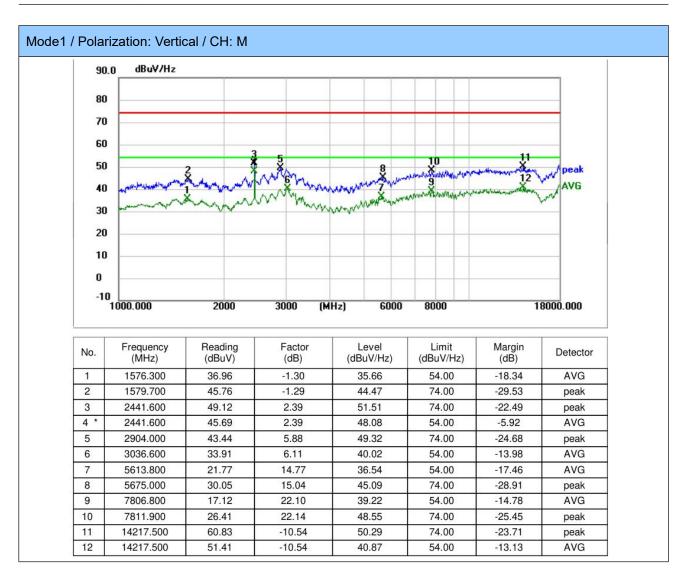
peak

AVG

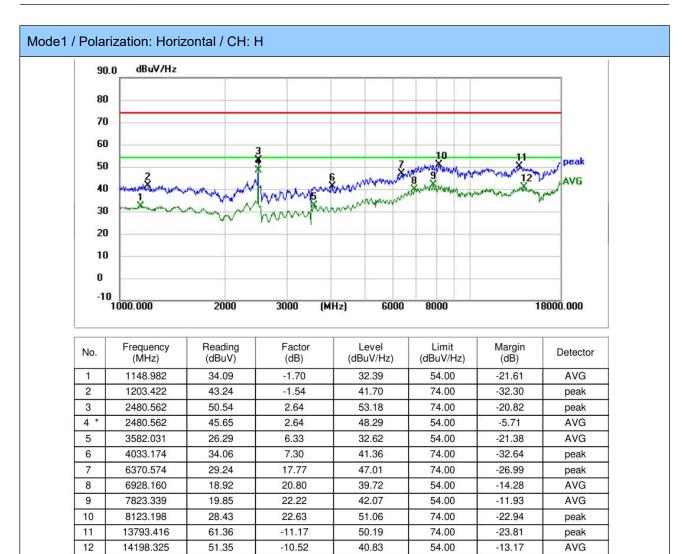


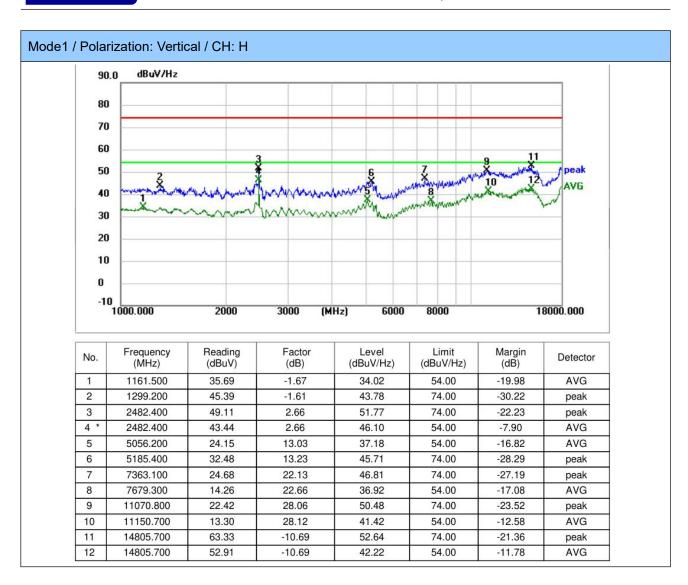












Note:

- 1) Level= Reading + Factor; Factor = Antenna Factor+ Cable Loss- Preamp Factor
- 2) Margin = Limit Level
- 3) Average measurement was not performed if peak level is lower than average limit (54dBuV/m) for above 1GHz.



6. TEST SETUP PHOTOS

Refer to the RF report CISRR25041513201.

7. EXTERNAL AND INTERNAL PHOTOS

7.1. External Photos

Refer to the RF report CISRR25041513201.

7.2. Internal Photos

Refer to the RF report CISRR25041513201.